AXL SE PD8/8 24V/GND - Potential distributors

1337225

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Axioline Smart Elements, Potential distribution module, 24 V DC, GND, degree of protection: IP20

Product description

You can integrate Axioline Smart Elements into systems with the Smart Element interface. This Smart Element provides the 24 V I/O supply voltage U_P at eight terminal points and the corresponding ground (GND) at eight terminal points. The Smart Element thus enables you to connect sensors in 2- or 3-conductor connection technology, whose signal lines are connected to the AXL SE DI16/1 Smart Element, for example. In addition, you can connect actuators in 2-conductor connection technology, whose control lines are connected to the AXL SE DO16/1 Smart Element, for example. You can also supply analog sensors with current signals using Smart Elements for potential distribution. Either use the AXL SE PD 24V and AXL SE PD16 GND Smart Elements or the AXL SE PD8/8 24V/GND Smart Element for this purpose.

Your advantages

• 8 terminal points, connected to the 24 V I/O supply U_P

• 8 terminal points, connected to the ground (GND) of the 24 V I/O supply U_P

Commercial data

Item number	1337225
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRIBZ4
Product key	DRIBZ4
GTIN	4063151638634
Weight per piece (including packing)	36 g
Weight per piece (excluding packing)	30 g
Customs tariff number	85389099
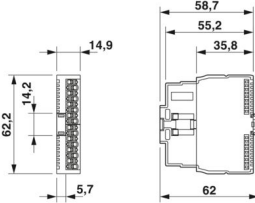
Technical data

Dimensions

Dimensional drawing	
Width	14.9 mm
Height	62.2 mm
Depth	62 mm

Notes

Note on application

Note on application	Only for industrial use

Interfaces

Smart Element interface

Number of interfaces	1
Connection method	Card edge connector
Transmission speed	See system in which you use the Smart Element.

System properties

Module

ID code (hex)	none
Process data channel	0 bit
Input address area	0 Byte (All systems except PROFIBUS)
	1 Byte (PROFIBUS)
Output address area	0 Byte
Required parameter data	1 Byte
Required configuration data	6 Byte

Product properties

Product type	I/O component
Product family	Axioline Smart Elements
Type	modular
Mounting position	See the system in which the Smart Element is used.
Special properties	24 V DC
	GND

Insulation characteristics

Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)

Electrical properties

Maximum power dissipation for nominal condition	1.1 W

Potentials: Communications power supply of the Smart Elements (U_{SE})

Supply voltage	using card edge connectors

Potentials: I/O supply (U_P)

Supply voltage	24 V DC (using card edge connectors)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current draw	max. 4 A
Current consumption	min. 9 mA (without connected peripherals)
Protective circuit	Surge protection; See the system in which the Smart Element is used.
	Reverse polarity protection; Polarity protection diode

Supply:

Designation	Sensor supply (U_P1)
Supply voltage	24 V DC (from U_P)

Electrical isolation/isolation of the voltage ranges

Test voltage: Communications supply / 24 V supply (I/O)	500 V AC, 50 Hz, 1 min
Test voltage: Communications supply / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (I/O) / functional ground	500 V AC, 50 Hz, 1 min

Connection data

Connection technology

Connection name	I/O
Note on the connection method	Please observe the information provided on conductor cross sections in the "Axioline Smart Elements" user manual.

Conductor connection

Connection method	Push-in connection
Conductor cross section rigid	0.25 mm² ... 1.5 mm²
Conductor cross section flexible	0.25 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 1.5 mm²
Stripping length	8 mm

I/O

Connection method	Push-in connection
Note on the connection method	Please observe the information provided on conductor cross sections in the "Axioline Smart Elements" user manual.
Conductor cross section, rigid	0.25 mm² ... 1.5 mm²

Conductor cross section, flexible	0.25 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 16
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm²
Stripping length	8 mm

Environmental and real-life conditions

Ambient conditions

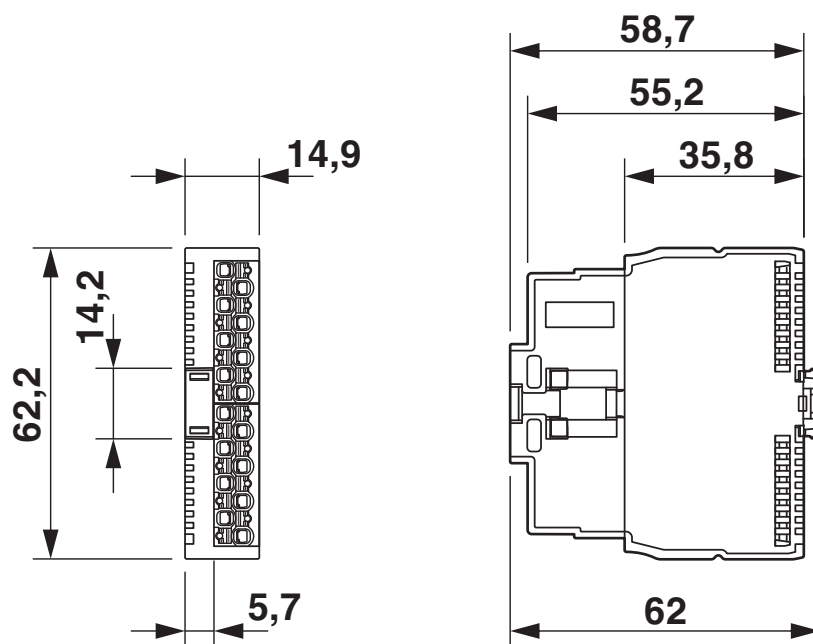| Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP20 (not assessed by UL)
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

Mounting type	Smart Element slot
Mounting position	See the system in which the Smart Element is used.

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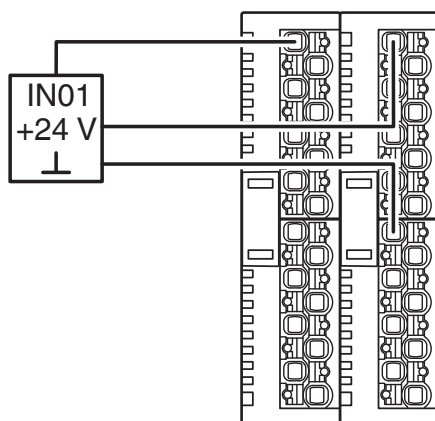https://www.phoenixcontact.com/au/products/1337225

Drawings

Dimensional drawing

Dimensions

Connection diagram

AXL SE DI16/1   AXL SE PD8/8 24V/GND

Connection example

Block diagram
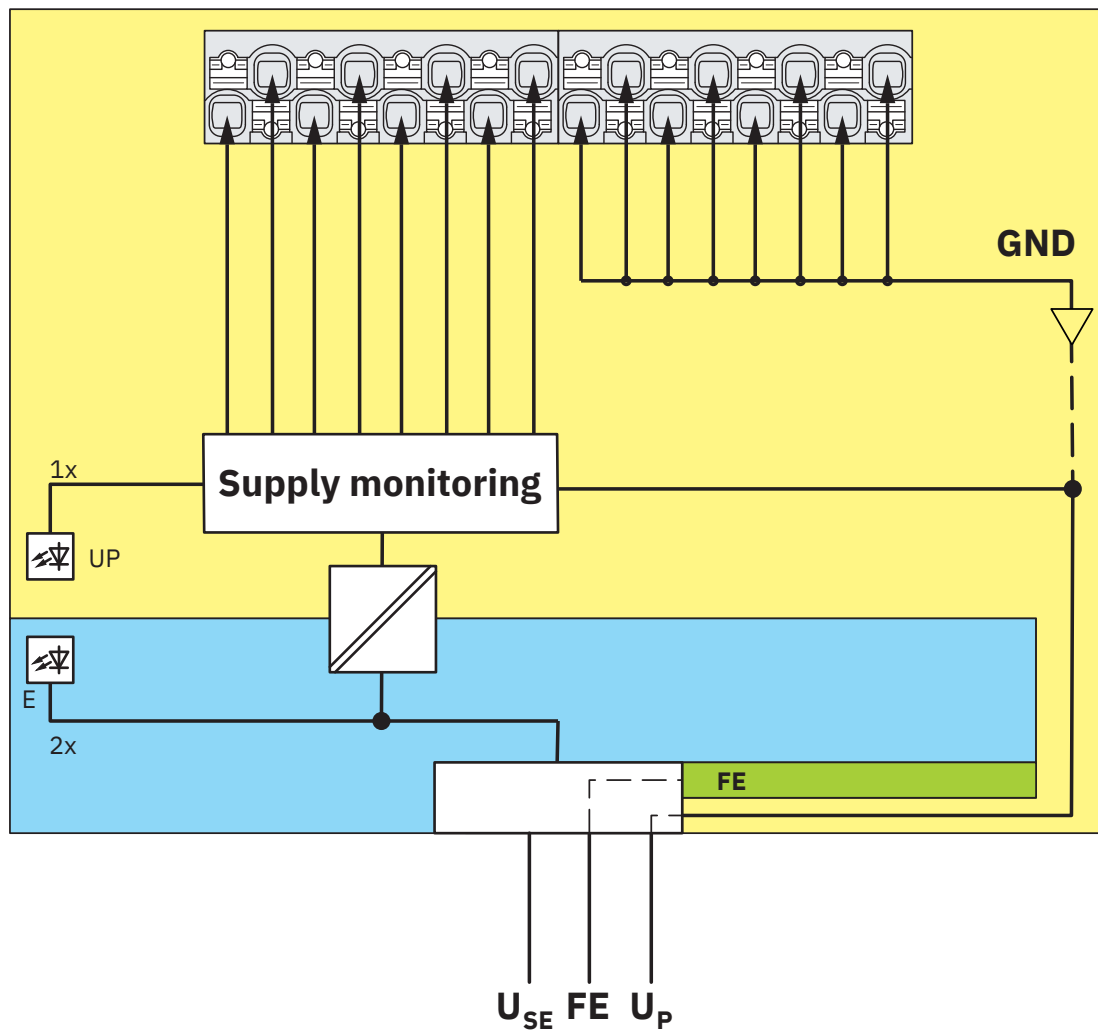
Basic circuit diagram

Approvals

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cULus Listed
Approval ID: E238705

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Classifications

ECLASS

ECLASS-13.0	27242610

ETIM

ETIM 9.0	EC001600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	5c006460-dd52-43da-8083-3f1a5a775dd5